

WHAT IS CLAIMED IS:

1. A speaker assembly for mobile phones having a main board covering a back surface of a speaker, comprising:

5 an air duct mounted on the back surface of the speaker such that the air duct penetrates the main board, thus allowing air to circulate from the speaker to a region behind the speaker.

10 2. A speaker assembly for mobile phones, comprising:

a front cover having a plurality of sound holes formed therethrough;

a rear cover assembled with the front cover in such a way as to form a predetermined cavity between the front and rear covers;

15 a speaker installed in said cavity in such a way as to face the sound holes of the front cover, and generating a sound pressure of a predetermined magnitude;

a main board attached to a back surface of the speaker for processing various kinds of data, and having a through hole communicating with a rear section of the speaker; and

20 an air duct connected at an end thereof to the back surface of the speaker and extending through the through hole of said main board,

25 whereby the air duct allows air to circulate from the

rear section of the speaker to a space formed between the main board and the rear cover.

3. A speaker assembly for mobile phones, comprising:

5 a front cover having a sound hole formed therethrough;

a rear cover assembled with the front cover in such a way as to form a predetermined cavity between the front and rear covers, and having a plurality of sound output holes at a position corresponding to said sound hole;

10 a speaker installed in said cavity in such a way as to face the sound output holes of the rear cover;

a main board attached to a back surface of the speaker for processing various kinds of data, and having a through hole communicating with a rear section of the speaker;

15 a display interposed between the main board and the front cover; and

an air duct connected at a first end thereof to the back surface of the speaker, and extending through the through hole of the main board in such a way as to be connected at a second end thereof to the front cover while surrounding an edge of the sound hole of said front cover,

whereby the air duct allows air to circulate from the rear section of the speaker to the outside of the front cover.